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1 Special issue in parallelism in database systems: Considering data skew factor in multi-way join query optimization for parallel execution
Kien A. Hua, Yo Lung Lo, Honesty C. Young
July 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 2 Issue 3
Full text available: 📄 pdf(1.43 MB)   Additional Information: full citation, abstract, references, citings

A consensus on parallel architecture for very large database management has emerged. This architecture is based on a shared-nothing hardware organization. The computation model is very sensitive to skew in tuple distribution, however. Recently, several parallel join algorithms with dynamic load balancing capabilities have been proposed to address this issue, but none of them consider multi-way join problems. In this article we propose a dynamic load balancing technique for multi-way joins, and i ...

Keywords: load balancing, multi-way join, parallel-database computer, query optimization

2 OFL: a functional execution model for object query languages
Georges Gardarin, Fernando Machuca, Philippe Pucheral
May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2
Full text available: 📄 pdf(1.40 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a functional paradigm for querying efficiently abstract collections of complex objects. Abstract collections are used to model class extents, multivalued attributes as well as indexes or hashing tables. Our paradigm includes a functional language called OFL (Object Functional Language) and a supporting execution model based on graph traversals. OFL is able to support any complex object algebra with recursion as macros. It is an appropriate target language for OQL-like query compilers. ...

3 Query processing: Estimating compilation time of a query optimizer
Ihab F. Ilyas, Jun Rao, Guy Lohman, Dengfeng Gao, Eileen Lin
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**
Full text available: 📄 pdf(292.76 KB)   Additional Information: full citation, abstract, references, index terms

A query optimizer compares alternative plans in its search space to find the best plan for a

10\01·4₇99₆

given query. Depending on the search space and the enumeration algorithm, optimizers vary in their compilation time and the quality of the execution plan they can generate. This paper describes a compilation time estimator that provides a quantified estimate of the optimizer compilation time for a given query. Such an estimator is useful for automatically choosing the right level of optimization in comme ...

4 Special issue in parallelism in database systems: Parallel query processing with zigzag trees

Mikal Ziane, Mohamed Zaït, Pascale Borla-Salamet

July 1993 **The VLDB Journal — The International Journal on Very Large Data Bases,** Volume 2 Issue 3

Full text available: 🔲 pdf(1.39 MB)   Additional Information: full citation, abstract, references, citings

In this article, we describe our approach to the compile-time optimization and parallelization of queries for execution in DBS3 or EDS. DBS3 is a shared-memory parallel database system, while the EDS system has a distributed-memory architecture. Because DBS3 implements a parallel dataflow execution model, this approach applies to both architectures. Using randomized search strategies enables the exploration of a search space large enough to include zigzag trees, which are intermediate between le ...

Keywords: cost function, fragmentation, pipeline, search space

5 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases,** Volume 11 Issue 4

Full text available: 🔲 pdf(351.86 KB)   Additional Information: full citation, abstract, index terms

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

6 Rule-based optimization and query processing in an extensible geometric database system

Ludger Becker, Ralf Hartmut Güting

June 1992 **ACM Transactions on Database Systems (TODS),** Volume 17 Issue 2

Full text available: 🔲 pdf(3.35 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Gral is an extensible database system, based on the formal concept of a many-sorted relational algebra. Many-sorted algebra is used to define any application's query language, its query execution language, and its optimiztion rules. In this paper we describe Gral's optimization component. It provides (1) a sophisticated rule language—rules are transformations of abstract algebra expressions, (2) a general optimization framework under which more specific optimization algorithms can be ...

Keywords: extensibility, geometric query processing, many-sorted algebra, optimization, relational algebra, rule-based optimization

7 A graph-theoretic model for optimizing queries involving methods

Chiang Lee, Chi-Sheng Shih, Yaw-Huei Chen

April 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 9 Issue 4

Full text available: pdf(266.86 KB)   Additional Information: full citation, abstract, index terms

Traditional algorithms for optimizing the execution order of joins are no more valid when
selections and projections involve methods and become very expensive operations.
Selections and projections could be even more costly than joins such that they are pulled
above joins, rather than pushed down in a query tree. In this paper, we take a fundamental
look at how to approach query optimization from a top-down design perspective, rather
than trying to force one model to fit into another. We present ...

Keywords: Graph model, Method query, Object-oriented databases, Query optimization,
Spanning tree

8 Experiences building the open OODB query optimizer

José A. Blakeley, William J. McKenna, Goetz Graefe

June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international
conference on Management of data**, Volume 22 Issue 2

Full text available: pdf(1.33 MB)   Additional Information: full citation, abstract, references, citings, index
terms

This paper reports our experiences building the query optimizer for TI's Open OODB
system. To the best of our knowledge, it is the first working object query optimizer to be
based on a complete extensible optimization framework including logical algebra, execution
algorithms, property enforcers, logical transformation rules, implementation rules, and
selectivity and cost estimation. Our algebra incorporates a new materialize operator with its
corresponding logical transform ...

9 Cost-based query scrambling for initial delays

Tolga Urhan, Michael J. Franklin, Laurent Amsaleg

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international
conference on Management of data**, Volume 27 Issue 2

Full text available: pdf(1.81 MB)   Additional Information: full citation, abstract, references, citings, index
terms

Remote data access from disparate sources across a wide-area network such as the
Internet is problematic due to the unpredictable nature of the communications medium and
the lack of knowledge about the load and potential delays at remote sites. Traditional,
static, query processing approaches break down in this environment because they are
unable to adapt in response to unexpected delays. Query scrambling has been proposed to
address this problem. Scrambling modifies query execution plans o ...

10 Adaptive query optimization in a deductive database system

Marcia A. Derr

December 1993 **Proceedings of the second international conference on Information and
knowledge management**

Full text available: pdf(958.87 KB)   Additional Information: full citation, references, citings, index terms

11 Call graph prefetching for database applications

Murali Annavaram, Jignesh M. Patel, Edward S. Davidson

November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4

Full text available: pdf(701.71 KB)   Additional Information: full citation, abstract, references, index terms

With the continuing technological trend of ever cheaper and larger memory, most data sets in database servers will soon be able to reside in main memory. In this configuration, the performance bottleneck is likely to be the gap between the processing speed of the CPU and the memory access latency. Previous work has shown that database applications have large instruction and data footprints and hence do not use processor caches effectively. In this paper, we propose Call Graph Prefetching (CGP), ...

Keywords: Instruction cache prefetching, call graph, database

12 Multiple-query optimization

Timos K. Sellis

March 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 1

Full text available: pdf(2.19 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Some recently proposed extensions to relational database systems, as well as to deductive database systems, require support for multiple-query processing. For example, in a database system enhanced with inference capabilities, a simple query involving a rule with multiple definitions may expand to more than one actual query that has to be run over the database. It is an interesting problem then to come up with algorithms that process these queries together instead of one query at a time. Th ...

13 Outerjoin simplification and reordering for query optimization

César Galindo-Legaria, Arnon Rosenthal

March 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 1

Full text available: pdf(616.62 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Keywords: outerjoins, query optimization, query reordering

14 NiagaraCQ: a scalable continuous query system for Internet databases

Jianjun Chen, David J. DeWitt, Feng Tian, Yuan Wang

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available: pdf(165.02 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Continuous queries are persistent queries that allow users to receive new results when they become available. While continuous query systems can transform a passive web into an active environment, they need to be able to support millions of queries due to the scale of the Internet. No existing systems have achieved this level of scalability. NiagaraCQ addresses this problem by grouping continuous queries based on the observation that many web queries share similar structures. Grouped queries ...

15 Answering queries using views: A survey

Alon Y. Halevy

December 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 4

Full text available: pdf(308.74 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

The problem of answering queries using views is to find efficient methods of answering a query using a set of previously defined materialized views over the database, rather than accessing the database relations. The problem has recently received significant attention because of its relevance to a wide variety of data management problems. In query

optimization, finding a rewriting of a query using a set of materialized views can yield a more efficient query execution plan. To support the separat ...

Keywords: Data integration, Date warehousing, Materialized views, Query optimization, Survey, Web-site management

16 Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

17 Stochastic query optimization in distributed databases

P. E. Drenick, E. J. Smith
June 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 2

Full text available: pdf(1.64 MB)   Additional Information: full citation, abstract, references, index terms, review

Many algorithms have been devised for minimizing the costs associated with obtaining the answer to a single, isolated query in a distributed database system. However, if more than one query may be processed by the system at the same time and if the arrival times of the queries are unknown, the determination of optimal query-processing strategies becomes a stochastic optimization problem. In order to cope with such problems, a theoretical state-transition model is presented that treats the s ...

Keywords: distributed query processing, state-transition model, stochastic query optimization

18 Extensible query processing in starburst

L. M. Haas, J. C. Freytag, G. M. Lohman, H. Pirahesh
June 1989 **ACM SIGMOD Record , Proceedings of the 1989 ACM SIGMOD international conference on Management of data**, Volume 18 Issue 2

Full text available: pdf(1.63 MB)   Additional Information: full citation, abstract, references, citings, index terms

Today's DBMSs are unable to support the increasing demands of the various applications that would like to use a DBMS. Each kind of application poses new requirements for the DBMS. The Starburst project at IBM's Almaden Research Center aims to extend relational DBMS technology to bridge this gap between applications and the DBMS. While providing a full function relational system to enable sharing across applications, Starburst will also allow (sophisticated) programmers to add many kinds of ...

19 <u>Query Optimization in Database Systems</u>   ▣

Matthias Jarke, Jurgen Koch

June 1984 **ACM Computing Surveys (CSUR),** Volume 16 Issue 2

Full text available: <u>pdf(2.84 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

20 <u>Optimization of object-oriented recursive queries using cost-controlled strategies</u>   ▣

Rosana S. G. Lanzelotte, Patrick Valduriez, Mohamed Zaït

June 1992 **ACM SIGMOD Record , Proceedings of the 1992 ACM SIGMOD international conference on Management of data,** Volume 21 Issue 2

Full text available: <u>pdf(1.07 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>
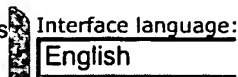
Object-oriented data models are being extended with recursion to gain expressive power. This complicates the optimization problem which has to deal with recursive queries on complex objects. Because unary operations invoking methods or path expressions on objects may be costly to execute, traditional heuristics for optimizing recursive queries are no longer valid. In this paper we propose a cost-based optimization method which handles object-oriented recursive queries. In particular, it is ...

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☐ 1. **An adaptive probe-based technique to optimize join queries in distributed Internet databases**
Latifur Khan, Dennis McLeod, Cyrus Shahabi. **Journal of Database Management.** Hershey: Oct-Dec 2001. Vol. 12, Iss. 4; p. 3 (12 pages)

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☐ 2. **LECCOTECH Introduces LECCO DB Expert for Oracle; For DBA Use in Managing & Enhancing Oracle Databases**
Business Editors/High-Tech Writers. **Business Wire.** New York: Feb 8, 2001. p. 1

Full text   Abstract

☐ 3. **The state of the art in distributed query processing**
Donald Kossmann. **ACM Computing Surveys.** Baltimore: Dec 2000. Vol. 32, Iss. 4; p. 422 (48 pages)

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☐ 4. **O2 Technology launches tool for building Web servers**
Bancilhon, Francois. **Business Wire.** New York: Feb 20, 1996. p. 1

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1 **Semantic query optimization for query plans of heterogeneous multidatabase systems**
Chun-Nan Hsu; Knoblock, C.A.;
Knowledge and Data Engineering, IEEE Transactions on , Volume: 12 , Issue: 6 , Nov.-Dec. 2000
Pages:959 - 978

[Abstract]   [PDF Full-Text (916 KB)]   **IEEE JNL**

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2. **Optimizing large join queries using a graph-based approach**
Chiang Lee; Chi-Sheng Shih; Yaw-Huei Chen;
Knowledge and Data Engineering, IEEE Transactions on , Volume: 13 , Issue: 2 , March-April 2001
Pages:298 - 315

[Abstract]   [PDF Full-Text (544 KB)]   **IEEE JNL**

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3 **Tree query optimization in distributed object-oriented databases**
Hyeokman Kim; Sukho Lee;
EUROMICRO 94. System Architecture and Integration. Proceedings of the 20th EUROMICRO Conference. , 5-8 Sept. 1994
Pages:45 - 52

[Abstract]   [PDF Full-Text (776 KB)]   **IEEE CNF**

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